L Number	Hits	Search Text	DB	Time stamp
7	10	347/65.ccls. and "MEMS" and "CMOS"	USPAT;	2004/08/23 08:49
			EPO; JPO	
8	38	piezoelectric and ("CMOS" near substrate)	USPAT;	2004/08/23 08:51
			EPO; JPO	
9	5	(piezoelectric and ("CMOS" near substrate)) and 347/\$.ccls.	USPAT;	2004/08/23 08:50
			EPO; JPO	
10	23	(piezoelectric and ("CMOS" near substrate)) and print\$3	USPAT;	2004/08/23 09:02
			EPO; JPO	
_	447	347/54	USPAT;	2004/08/17 18:31
	, , ,		EPO; JPO	
_	6	"4819009"	USPAT;	2000/09/19 13:57
	_		EPO; JPO	
_	70055	electromag\$ and coil	USPAT;	2000/09/20 17:06
	, 0000		EPO; JPO	
_	375000	piston or plunger	USPAT;	2000/09/20 17:07
	0,000	placer or planger	EPO; JPO	
	9	(347/54) and (electromag\$ and coil) and (piston or plunger)	USPAT;	2000/09/20 17:17
-	9	(347754) and (electromagy and con) and (piston or plunger)	EPO; JPO	2000/00/20 17:17
	50	(347/\$.ccls.) and (electromag\$ and coil) and (piston or	USPAT;	2000/09/20 17:17
-	30		EPO; JPO	2000/09/20 17.17
	4404	plunger)	USPAT;	2000/09/22 12:43
-	1191	magnetostrictive adj (material or actuator)		2000/09/22 12:43
	445447		EPO; JPO	2000/00/22 00:52
-	145447	magnetic adj field	USPAT;	2000/09/22 09:53
			EPO; JPO	0000/00/00 44.40
-	663	(magnetostrictive adj (material or actuator)) and (magnetic	USPAT;	2000/09/22 14:49
	_	adj field)	EPO; JPO	
-	5	347/\$.ccls. and ((magnetostrictive adj (material or actuator))	USPAT;	2000/09/22 14:48
		and (magnetic adj field))	EPO; JPO	
] -	3	magnetostrictive adj (paddle or diaphragm)	USPAT;	2000/09/22 14:47
			EPO; JPO	
-	108	terfenol-D	USPAT;	2000/09/22 14:48
			EPO; JPO	
-	0	347/\$.ccls. and ((magnetostrictive adj (material or actuator))	USPAT;	2000/09/22 14:49
		and (magnetic adj field)) and terfenol-D	EPO; JPO	
-	60	(magnetostrictive adj (material or actuator)) and (magnetic	USPAT;	2000/09/22 15:30
		adj field) and terfenol-D	EPO; JPO	
-	39	motamedi-\$.in.	USPAT;	2000/09/22 15:30
			EPO; JPO	
-	10544	sma or (shape adj memory adj alloy)	USPAT;	2000/09/25 15:00
1			EPO; JPO	
] _	489	martensitic adj phase	USPAT;	2000/09/25 12:13
			EPO; JPO	
-	587	austenitic adj phase	USPAT;	2000/09/25 12:14
			EPO; JPO	
-	1	((sma or (shape adj memory adj alloy)) and (martensitic adj	USPAT;	2000/09/25 12:14
		phase) and (austenitic adj phase)) and 347/\$.ccls.	EPO; JPO	-
] _	101	(sma or (shape adj memory adj alloy)) and (martensitic adj	USPAT;	2000/09/25 12:20
		phase) and (austenitic adj phase)	EPO; JPO	
-	3925	sma or (shape adj memory adj alloy) and 347/\$.ccls.	USPAT;	2000/09/25 15:00
		, , , , , , , , , , , , , , , , , , , ,	EPO; JPO	
_	65	(sma or (shape adj memory adj alloy)) and 347/\$.ccls.	USPAT;	2000/09/25 15:03
			EPO; JPO	
<u>-</u>	4	actuator and ((sma or (shape adj memory adj alloy)) and	USPAT;	2000/09/25 15:05
	-	347/\$.ccls.)	EPO; JPO	
[_	3	ejector and ((sma or (shape adj memory adj alloy)) and	USPAT;	2000/09/25 15:06
		347/\$.ccls.)	EPO; JPO	
_	9	"0634273"	USPAT;	2003/09/21 16:42
] -		0007210	US-PGPUB;	2000/00/21 10.42
1			EPO; JPO;	
			DERWENT	
	3991177	ep "634273" a2	USPAT;	2003/09/21 16:43
-	39911//	SP 004270	US-PGPUB;	2000/03/21 10.43
[EPO; JPO;	
i l		I .	DERWENT	i _

-	10	"634273"	USPAT;	2003/09/21 16:43
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	4	"6557977"	USPAT;	2003/09/22 08:13
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	0	silverbrook-\$.in and (nozzle near (guard\$3 protect\$3))	USPAT;	2004/08/02 17:57
1		, , , , , , , , , , , , , , , , , , , ,	EPO; JPO	
-	108	silverbrook-\$.in. and (nozzle near (guard\$3 protect\$3))	USPAT;	2004/08/02 17:57
		((((((((((((((((((((EPO; JPO	
_	29	(silverbrook-\$.in. and (nozzle near (guard\$3 protect\$3))) and	USPAT;	2004/08/02 18:31
		347/54.ccls.	EPO; JPO	
_	159	(MEMS near (substrate\$1 nozzle\$1 chamber\$1))	USPAT;	2004/08/17 18:40
	,,,,	(EPO; JPO	
_	22	((MEMS near (substrate\$1 nozzle\$1 chamber\$1))) and	USPAT;	2004/08/02 18:33
,		347/\$.ccls.	EPO; JPO	200 1/20/02 10:00
_	11	("1941001" "3373437" "3416153" "3946398" "4346387"	USPAT	2004/08/02 18:35
-	''	"4894664" "5812159" "5825385" "5880759" "6079821"	001 71	2004/00/02 10:00
	4	"6312112").PN.	I I I I I I	2004/08/17 18:35
] -	1	6247790.pn.	USPAT;	2004/00/1/ 10.35
	_	MENO come autotratada come CNACO como districtorio	EPO; JPO	2004/09/47 40:27
-	0	MEMS same substrate\$1 same CMOS same (fluid near	USPAT;	2004/08/17 18:37
		channel\$1)	EPO; JPO	0004/00/47 40:07
-	26	"MEMS" and (substrate\$1 same "CMOS") and (fluid near	USPAT;	2004/08/17 18:37
		channel\$1)	EPO; JPO	
-	1466	((MEMS microelectro\$) near (substrate\$1 nozzle\$1	USPAT;	2004/08/17 18:41
		chamber\$1))	EPO; JPO	
-	33	(((MEMS microelectro\$) near (substrate\$1 nozzle\$1	USPAT;	2004/08/17 18:49
		chamber\$1))) and 347/\$.ccls.	EPO; JPO	
-	1	5989445.pn.	USPAT;	2004/08/17 18:52
		·	EPO; JPO	
_	6	("3921916" "4455192" "5308442" "5385635" "5585827"	USPAT	2004/08/17 18:52
		"5588597").PN.		
	714	347/65.ccls.	USPAT;	2004/08/17 18:53
			EPO; JPO	
-	27	347/65.ccls. and "MEMS"	USPAT;	2004/08/23 08:49
			EPO; JPO	
-	1	5828394.pn.	USPAT;	2004/08/23 08:49
]	·	r	EPO; JPO	
_	1	6712986.pn.	USPAT;	2004/08/18 08:14
	·		EPO; JPO	
	1	5828394.pn. and (paper medium sheet)	USPAT;	2004/08/18 10:26
<u> </u>	'	SOLUGO I.PII. GIIG (Papor Modialii Siloot)	EPO; JPO	
_	3871	347/\$.ccls. and (piezoelectric same (thermal heat\$3 bubble\$1	USPAT;	2004/08/18 10:27
-	30,1	actuator\$1))	EPO; JPO	230 1100110 10.21
	3694	(347/\$.ccls. and (piezoelectric same (thermal heat\$3	USPAT;	2004/08/18 10:28
-	3094	(34775.0015, and (piezoelectric same (thermal heats) bubble\$1 actuator\$1))) not silverbrook-\$.in.	EPO; JPO	200-7/00/10 10:20
	420	((347/\$.ccls. and (piezoelectric same (thermal heat\$3	USPAT;	2004/08/18 11:29
-	420	((347/\$.ccis. and (piezoelectric same (thermal heat\$3 bubble\$1 actuator\$1))) not silverbrook-\$.in.) and (conductive	EPO; JPO	2007/00/10 11.29
			EFO, JFO	
	_	resistive) and (high with coefficient expansion)	LICDAT	2004/00/40 44:22
-	6	(((347/\$.ccls. and (piezoelectric same (thermal heat\$3	USPAT;	2004/08/18 11:30
	1	bubble\$1 actuator\$1))) not silverbrook-\$.in.) and (conductive	EPO; JPO	
		resistive) and (high with coefficient expansion)) and		
		serpentine		0004/00/10 11 51
-	18	347/63-65.ccls. and kodak	USPAT;	2004/08/18 11:21
	_		EPO; JPO	
-	28	347/63-65.ccls. and 347/68-72.ccls.	USPAT;	2004/08/18 13:44
			EPO; JPO	
-	1	(347/63-65.ccls. and 347/68-72.ccls.) and (thermal with	USPAT;	2004/08/18 11:28
	1	actuator\$1)	EPO; JPO	
-	295	347/\$.ccls. and (thermal with actuator\$1) and piezoelectric	USPAT;	2004/08/18 11:29
		and (thermal bubble heat\$3)	EPO; JPO	

-	196	(347/\$.ccls. and (thermal with actuator\$1) and piezoelectric	USPAT;	2004/08/18 11:29
		and (thermal bubble heat\$3)) and (conductive resistive) and	EPO; JPO	
		(high with coefficient expansion)		
-	1 1	(((347/\$.ccls. and (thermal with actuator\$1) and piezoelectric	USPAT;	2004/08/18 11:30
1		and (thermal bubble heat\$3)) and (conductive resistive) and	EPO; JPO	
		(high with coefficient expansion)) and serpentine) not		
		silverbrook-\$.in.		
	48	((347/\$.ccls. and (thermal with actuator\$1) and piezoelectric	USPAT;	2004/08/18 11:30
-	40		EPO; JPO	2004/00/10 11.50
		and (thermal bubble heat\$3)) and (conductive resistive) and	EPO, JPO	
		(high with coefficient expansion)) and serpentine	LIODAT	0004/00/40 40:45
-	0	347/63-65.ccls. and 347/68-72.ccls. and "PTFE"	USPAT;	2004/08/18 13:45
	_		EPO; JPO	
-	0	347/56-65.ccls. and 347/68-72.ccls. and "PTFE"	USPAT;	2004/08/18 13:45
			EPO; JPO	
-	3	347/56-65.ccls. and 347/68-72.ccls. and (thermal near	USPAT;	2004/08/18 13:46
		expansion)	EPO; JPO	,
-	0	347/56-65.ccls. and 347/68-72.ccls. and (high near	USPAT;	2004/08/18 13:47
		coefficient)	EPO; JPO	
_	126	347/\$.ccls. and piezoelectric and thermal and (high near	USPAT;	2004/08/18 14:09
	•	coefficient)	EPO; JPO	
_	13	(347/\$.ccls. and piezoelectric and thermal and (high near	USPAT;	2004/08/18 13:47
	10	coefficient)) not silverbrook-\$.in.	EPO; JPO	200 1,00, 10 10. 11
	5	347/\$.ccls. and (high near coefficient near expansion)	USPAT;	2004/08/18 14:12
-	1	1 34774.ccis. and (mgir flear coefficient flear expansion)	EPO; JPO	2004/00/10 14.12
	0	(thermal near printh and (high near coefficient near	,	2004/00/40 44:42
-	"	(thermal near printhead\$1) and (high near coefficient near	USPAT;	2004/08/18 14:13
		expansion)	EPO; JPO	0004/00/40 44/40
-	0	printhead\$1 and (high near coefficient near expansion)	USPAT;	2004/08/18 14:13
			EPO; JPO	
-	1284	high near coefficient near expansion	USPAT;	2004/08/18 14:14
	ŀ		EPO; JPO;	
			DERWENT	
-	51	(high near coefficient near expansion) and (347/\$.ccls.	USPAT;	2004/08/18 14:36
		216/\$.ccls. 29/\$.ccls.)	EPO; JPO;	
			DERWENT	
-	1	jp404001051a	USPAT;	2004/08/18 14:19
			EPO; JPO;	
			DERWENT	
-	4	("4533082" "4605167" "4702418" "5487378").PN.	USPAT	2004/08/18 14:34
-	2	6543884.pn.	USPAT;	2004/08/18 14:38
		,	EPO; JPO;	
			DERWENT	
-	12	("4789425" "4864329" "4866461" "4894664" "5016024"	USPAT	2004/08/18 14:37
		"5198834" "5322594" "5463411" "5489930" "5638101"		
		"5648806" "5710070").PN.		
-	695	347/65.ccls. not silverbrook-\$.in.	USPAT;	2004/08/18 14:39
			EPO; JPO;	
			DERWENT	
_	50	(347/65.ccls. not silverbrook-\$.in.) and (thermal near	USPAT;	2004/08/18 14:39
		expansion)	EPO; JPO;	
		onpution)	DERWENT	
	36	(347/65.ccls. not silverbrook-\$.in.) and (thermal near	USPAT;	2004/08/18 14:52
-	30		EPO; JPO;	2004/00/10 14.52
		expansion near coefficient)	DERWENT	
	_	5077704	·	2004/09/49 44:52
-	2	5877791.pn.	USPAT;	2004/08/18 14:53
	1		EPO; JPO;	
	_	5000445	DERWENT	0004/00/40 44 50
-	2	5989445.pn.	USPAT;	2004/08/18 14:53
			EPO; JPO;	
			DERWENT	<u> </u>